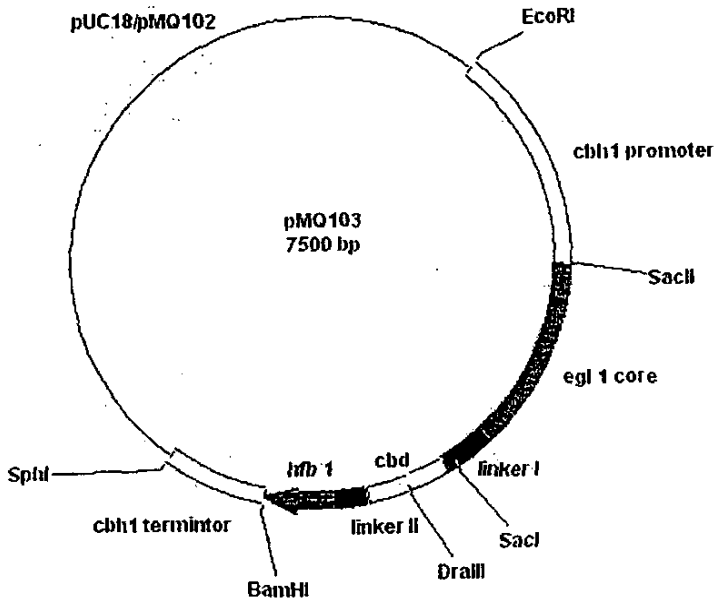

pUC18/pMO102
EcoRI
cbh1 promoter
pMO103
7500 bp
SacII
egl 1 core
SphI
hfb 1
cbd
linker I
cbh1 termintor
linker II
SacI
DraIII
BamHI

Fig 1.

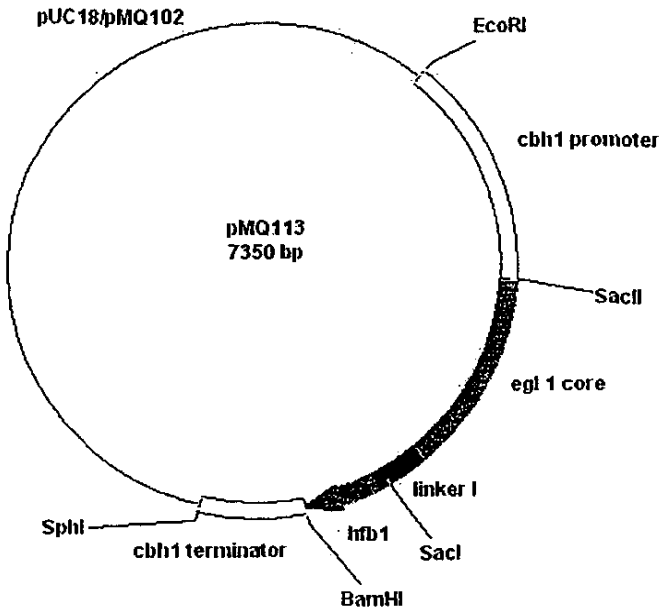

pUC18/pMQ102
EcoRI
cbh1 promoter
pMQ113
7350 bp
SacII
egl 1 core
linker I
SphI
cbh1 terminator
hfb1
SacI
BamHI

Fig 2.

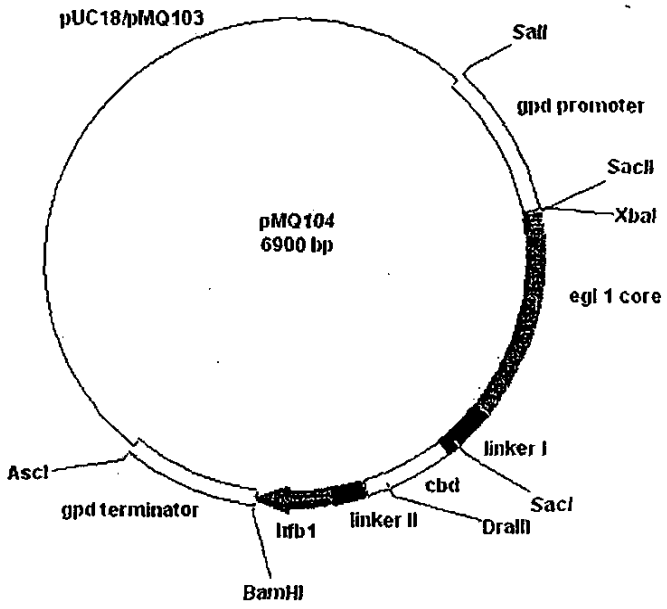

pUC18/pMQ103
SalI
gpd promoter
SacII
XbaI
pMQ104
6900 bp
egl 1 core
linker I
cbd
SacI
DraIII
linker II
Inb1
BamHI
gpd terminator
AscI

Fig 3.

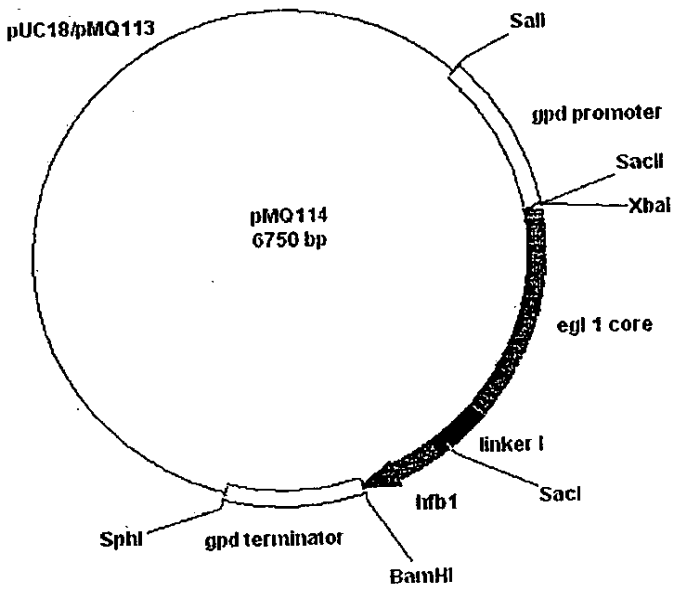

pUC18/pMQ113
SalI
gpd promoter
SacII
XbaI
pMQ114
6750 bp
egl 1 core
linker I
SacI
hfb1
SphI
gpd terminator
BamHI

Fig 4.

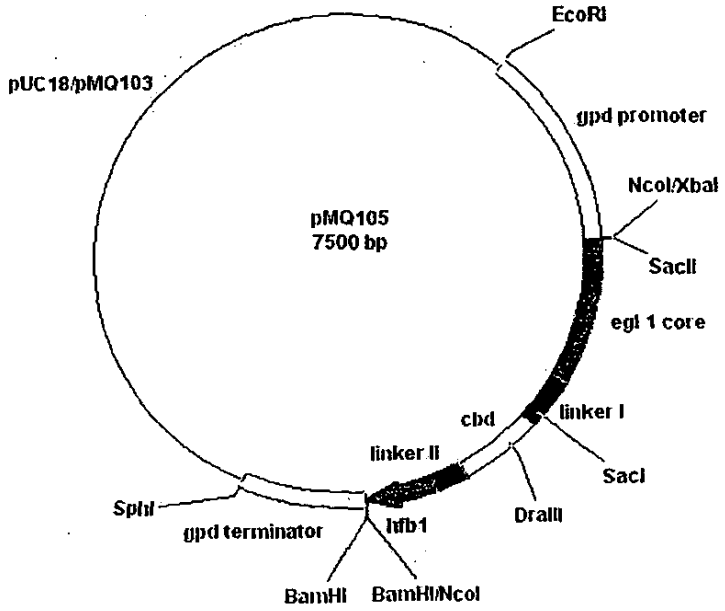

EcoRI
pUC18/pMQ103
gpd promoter
NcoI/XbaI
pMQ105
7500 bp
SacII
egl 1 core
cbd
linker I
linker II
SacI
SphI
DraIII
gpd terminator
lifb1
BamHI
BamHI/NcoI

Fig 5.

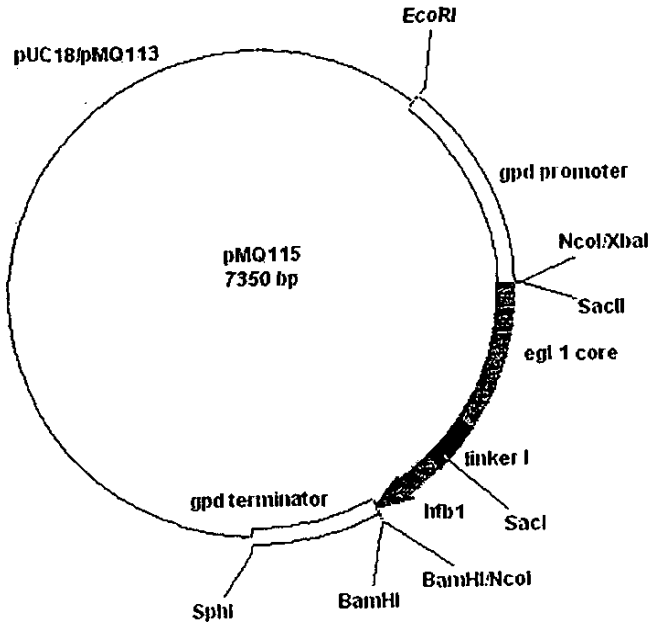

EcoRI
pUC18/pMQ113
gpd promoter
NcoI/XbaI
pMQ115
7350 bp
SacII
egl 1 core
linker I
gpd terminator
hfb1
SacI
BamHI/NcoI
SphI
BamHI

Fig 6.

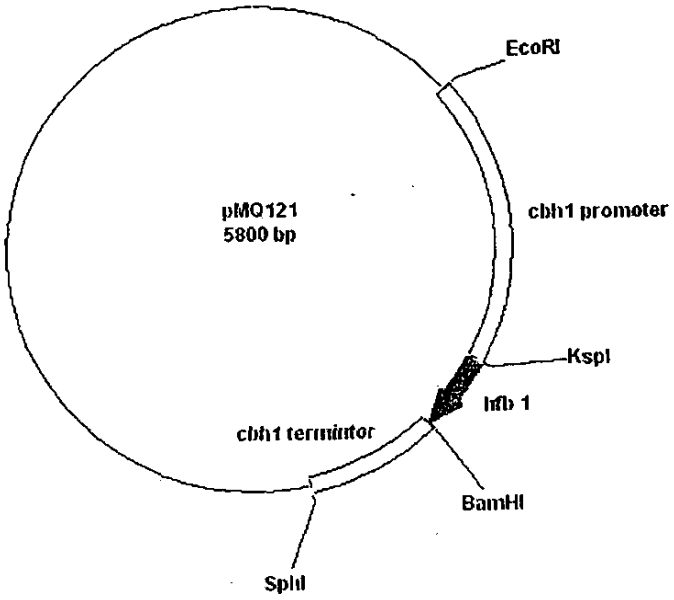

EcoRI
pMO121
5800 bp
cbh1 promoter
KspI
hfb 1
cbh1 terminator
BamHI
SphI

Fig 7.

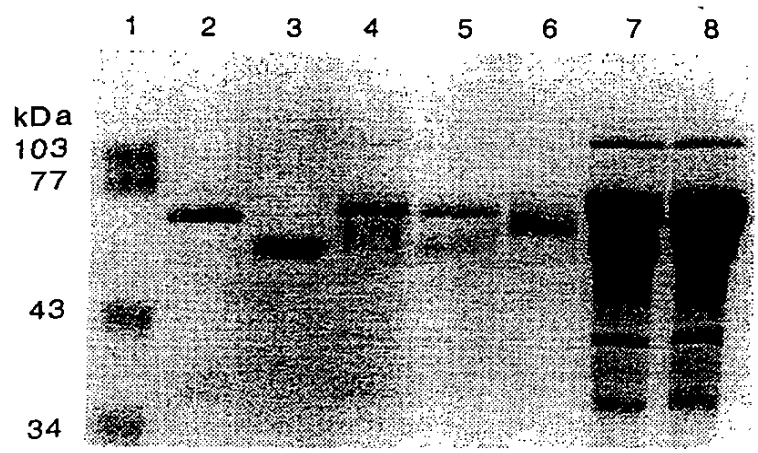


Fig. 8

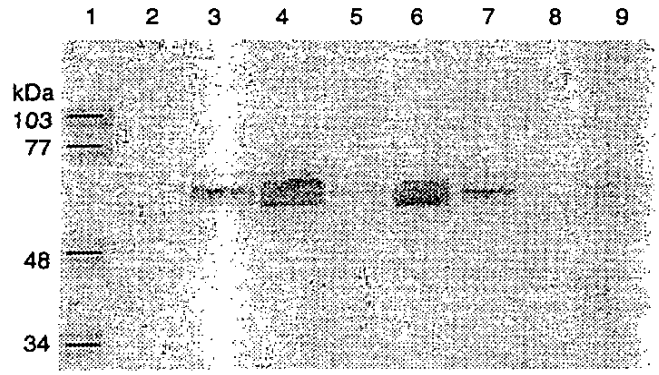


Fig. 9

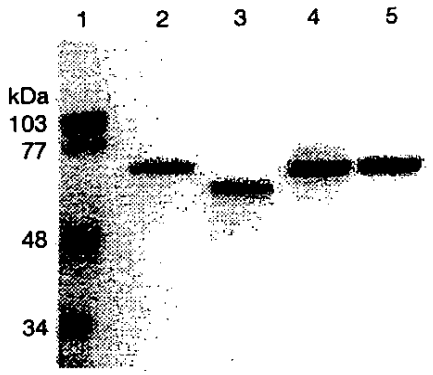


Fig. 10

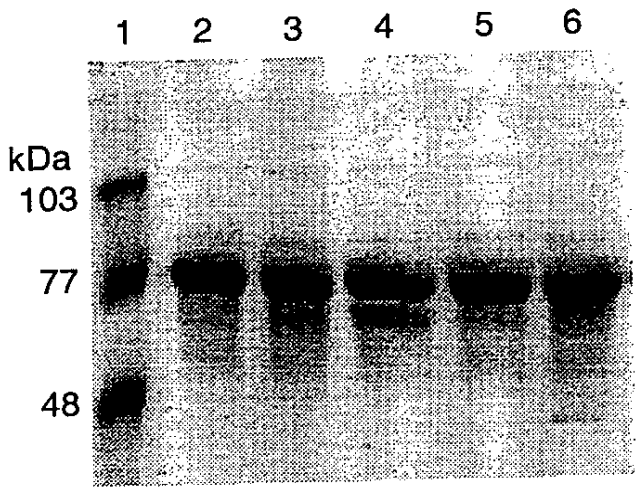


Fig. 11

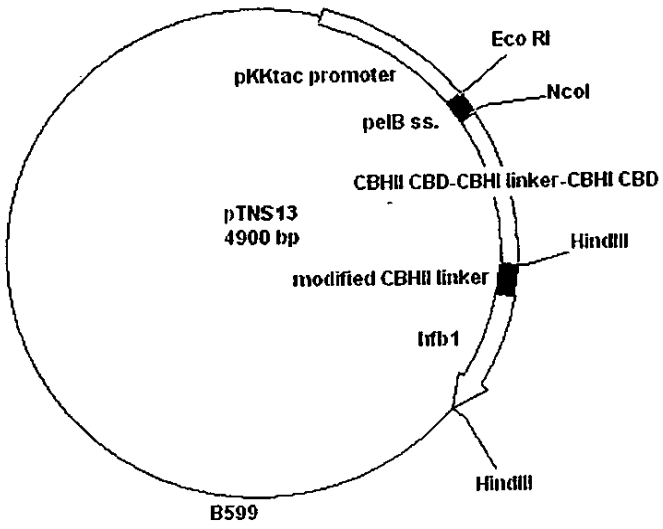

Eco RI
pKKtac promoter
NcoI
pelB ss.
CBHII CBD-CBHI linker-CBHI CBD
pTNS13
4900 bp
HindIII
modified CBHII linker
trfb1
HindIII
B599

Fig 12.

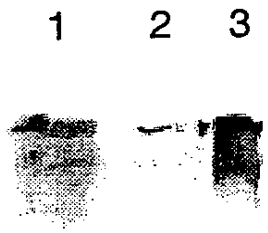


Fig. 13

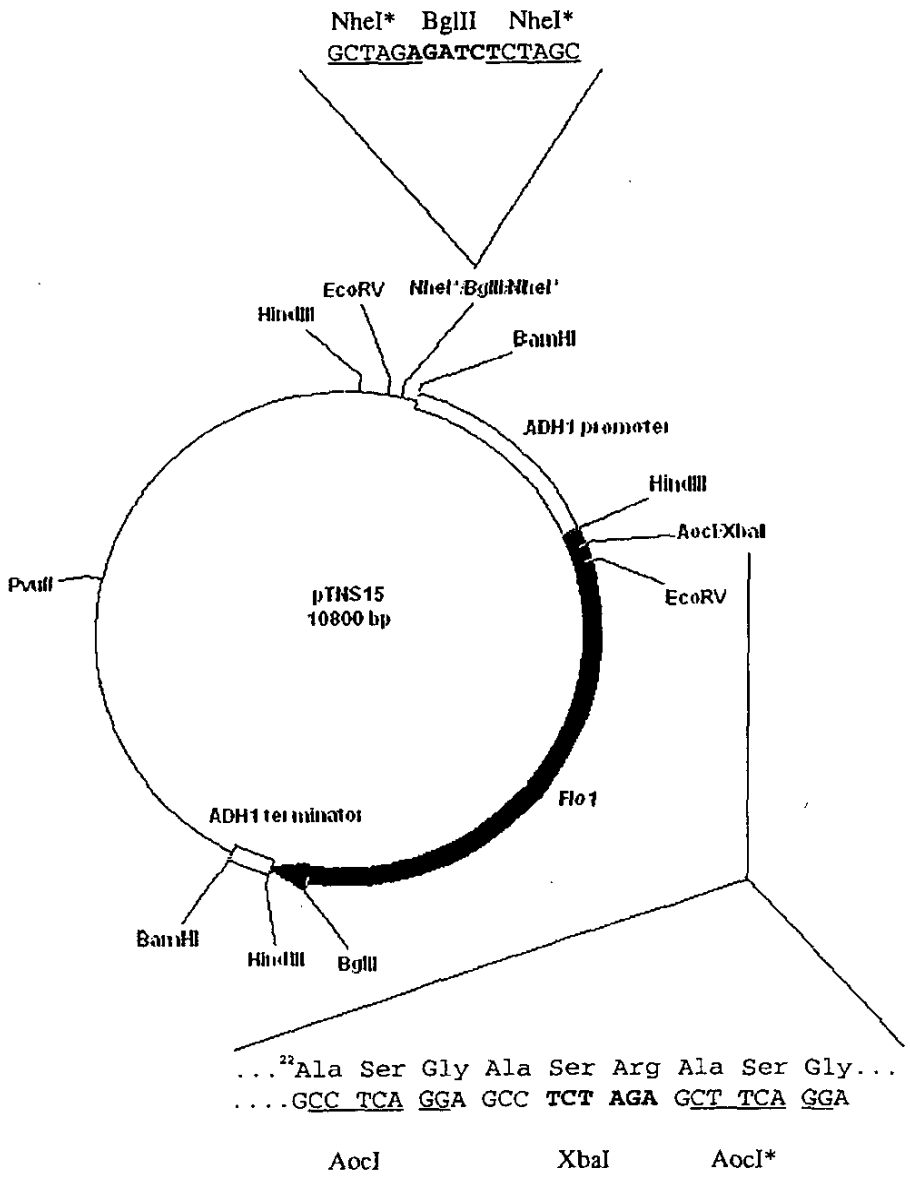

NheI* BglII NheI*
GCTAGAGATCTCTAGC
EcoRV
NheI*BglIINheI*
HindIII
BamHI
ADH1 promoter
HindIII
AocI:XbaI
EcoRV
PvuII
pTNS15
10800 bp
Flo1
ADH1 terminator
BamHI
HindIII
BglII
...22Ala Ser Gly Ala Ser Arg Ala Ser Gly...
....GCC TCA GGA GCC TCT AGA GCT TCA GGA
AocI
XbaI
AocI*

Fig 14.

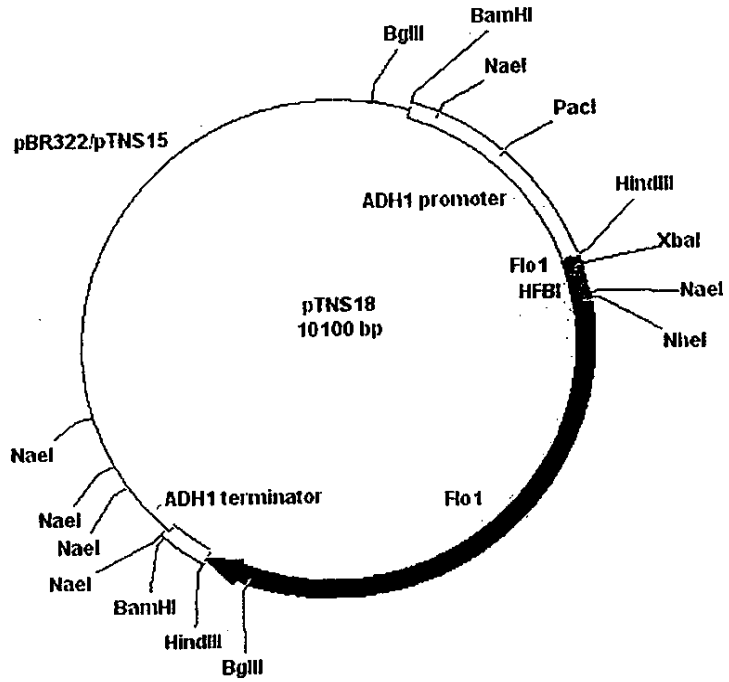

BglII
BamHI
NaeI
PacI
HindIII
XbaI
NaeI
NheI
pBR322/pTNS15
ADH1 promoter
Flo1
HFBI
pTNS18
10100 bp
NaeI
NaeI
NaeI
NaeI
ADH1 terminator
Flo1
BamHI
HindIII
BglII

Fig 15.

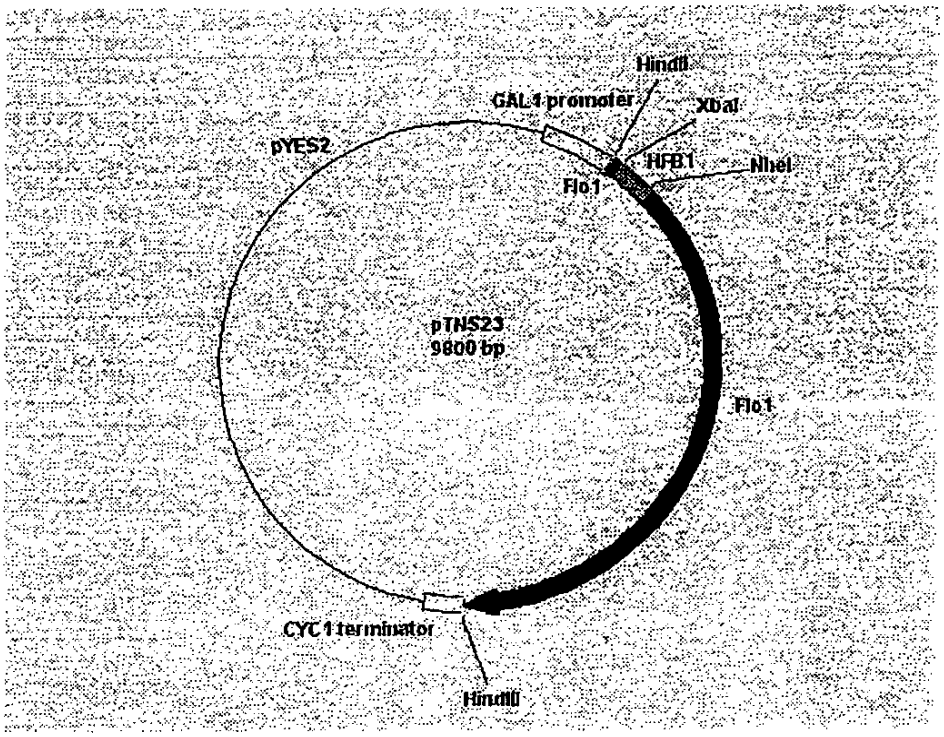

HindIII
GAL1 promoter
XbaI
pYES2
HFB1
NheI
Flo1
pTNS23
9800 bp
Flo1
CYC1 terminator
HindIII

Fig. 16

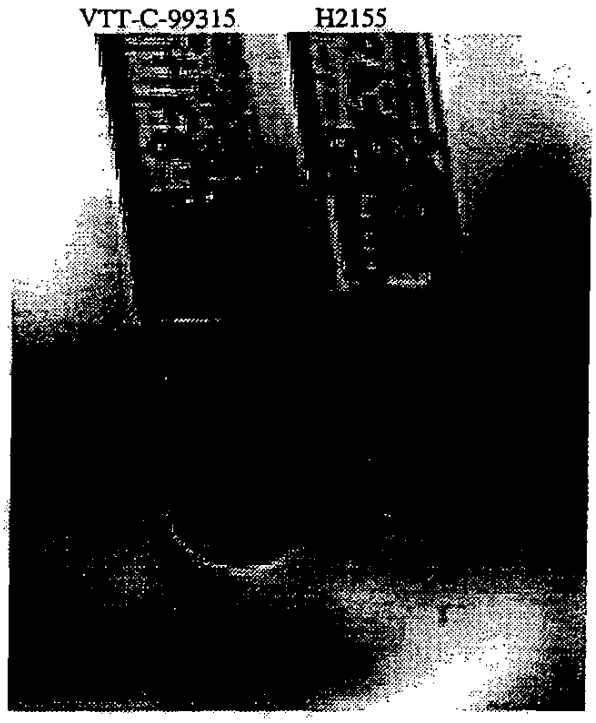


Fig. 17

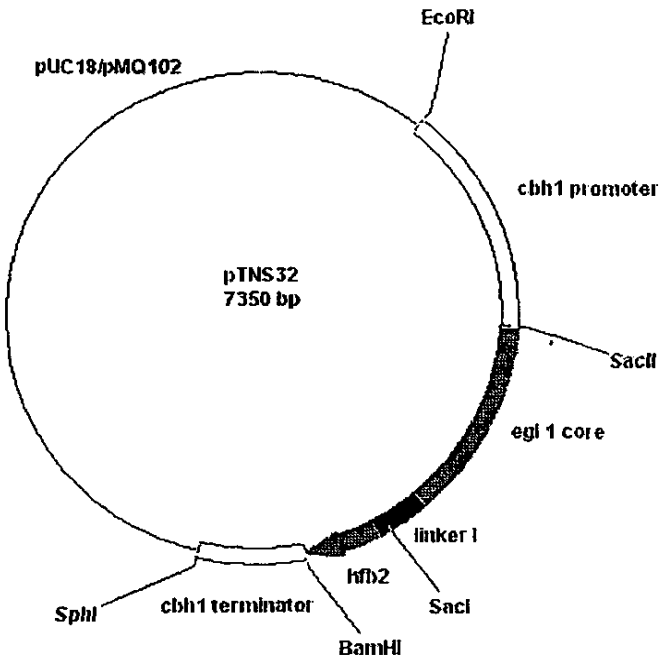

EcoRI
pUC18/pMQ102
cbh1 promoter
pTNS32
7350 bp
SacII
egi 1 core
linker I
hfb2
SacI
SphI
cbh1 terminator
BamHI

Figure 18.

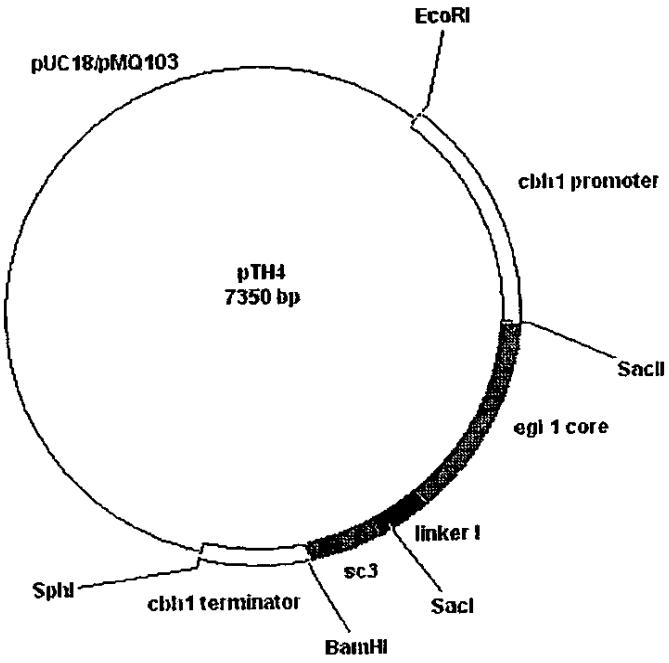

EcoRI
pUC18/pMQ103
cbh1 promoter
pTH4
7350 bp
SacII
egl 1 core
linker I
sc3
SacI
SphI
cbh1 terminator
BamHI

Figure 19

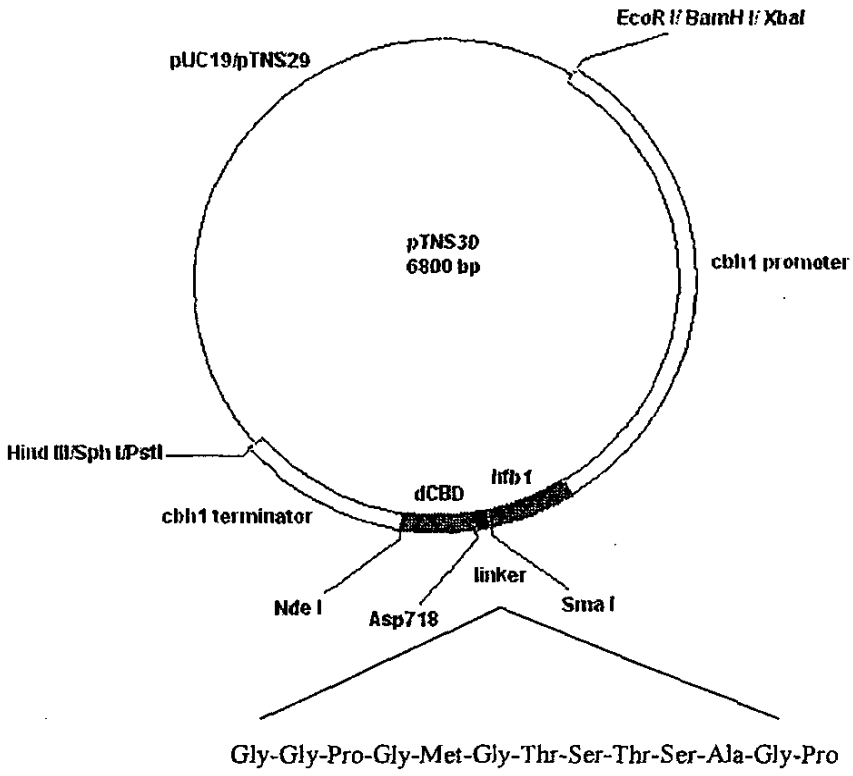

EcoR I/ BamH I/ Xbal
pUC19/pTNS29
pTNS30
6800 bp
cbh1 promoter
Hind III/Sph I/PstI
cbh1 terminator
dCBD
linker
Nde I
Asp718
Sma I
Gly-Gly-Pro-Gly-Met-Gly-Thr-Ser-Thr-Ser-Ala-Gly-Pro

Figure 20.

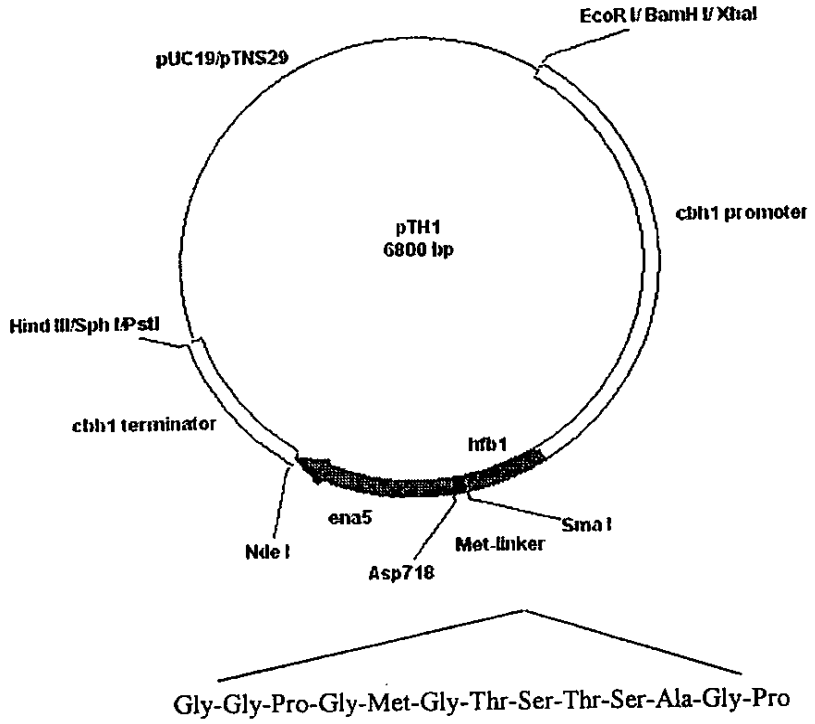

EcoR I/ BamH I/ Xhal
pUC19/pTNS29
cbh1 promoter
pTH1
6800 bp
Hind III/Sph I/Pstl
cbh1 terminator
hfb1
ena5
Sma I
Met-linker
Nde I
Asp718
Gly-Gly-Pro-Gly-Met-Gly-Thr-Ser-Thr-Ser-Ala-Gly-Pro

Figure 21

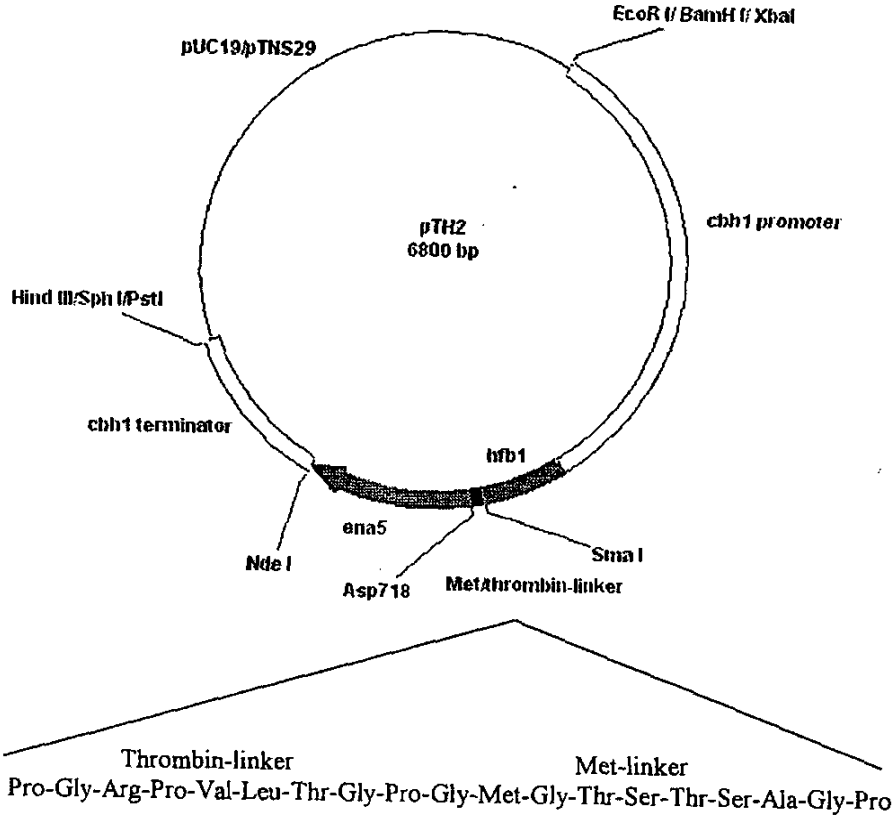

pUC19/pTNS29
EcoR I/ BamH I/ XbaI
pTH2
6800 bp
cbh1 promoter
Hind III/Sph I/PstI
cbh1 terminator
hfb1
ena5
Nde I
Asp718
Met/thrombin-linker
SmaI
Thrombin-linker
Met-linker
Pro-Gly-Arg-Pro-Val-Leu-Thr-Gly-Pro-Gly-Met-Gly-Thr-Ser-Thr-Ser-Ala-Gly-Pro

Figure 22

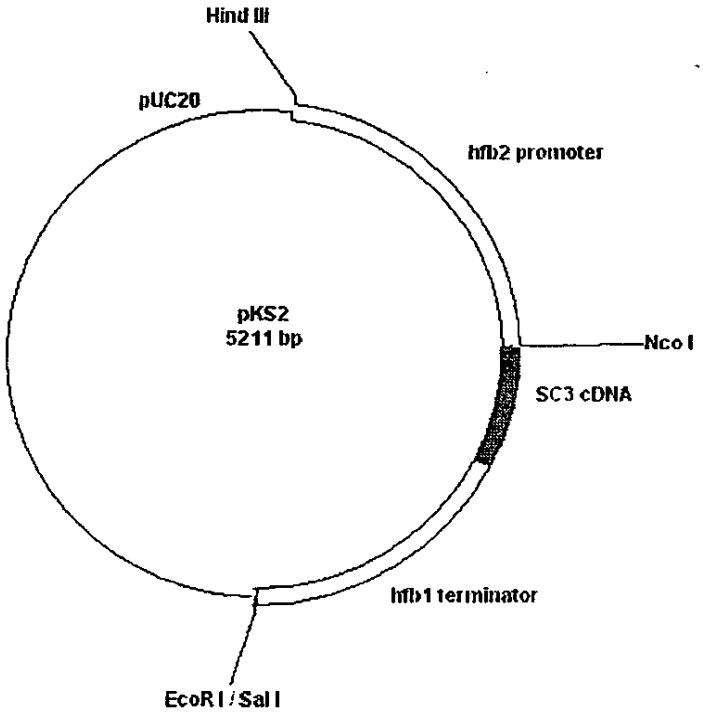
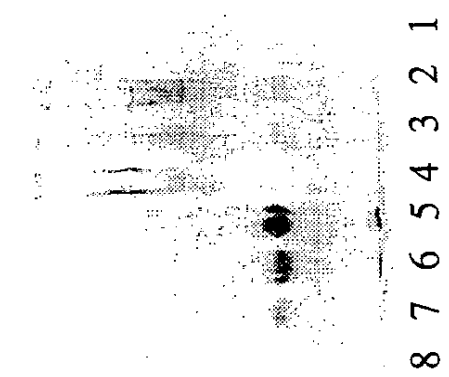

Hind III
pUC20
hfb2 promoter
pKS2
5211 bp
Nco I
SC3 cDNA
hfb1 terminator
EcoR I / Sal I

Figure 23

Figure 24


1 MW marker
2 Supernatant
3 Supernatant 1:2
4 Bottom phase
5 Extracted top phase
6 Extracted top phase 1:2
7 Extracted top phase 1:4
8 MW marker
HFBI-dCBD
Endogenous HFBII
8 7 6 5 4 3 2 1

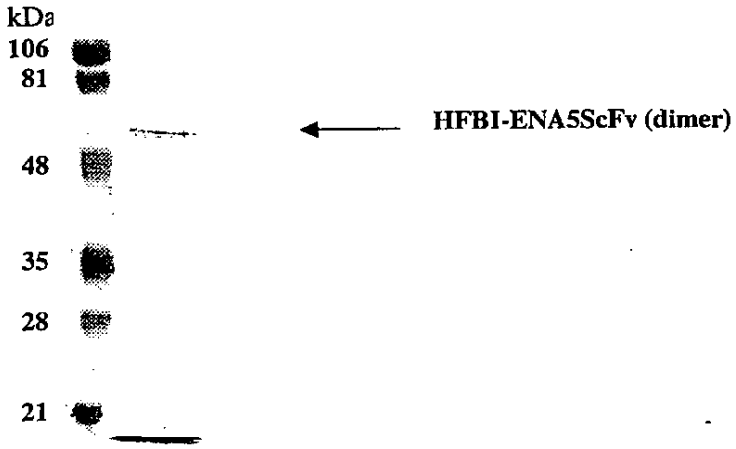


Fig. 25

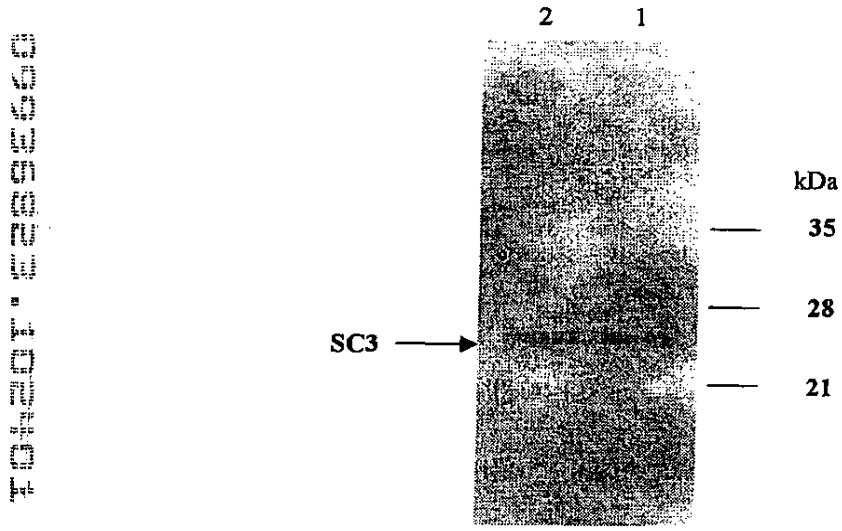


Fig. 26

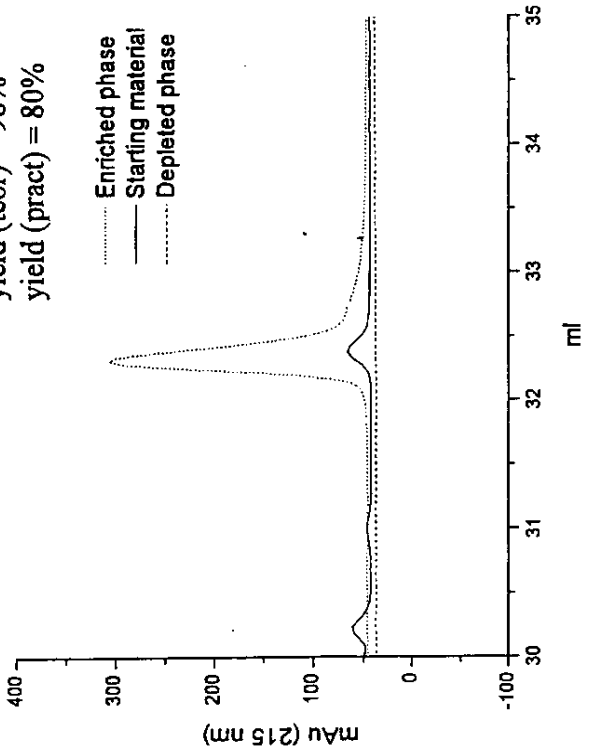

HFBI 2% Berol 532
K > 1000
vol. factor = 22,6
yield (teor) = 98%
yield (pract) = 80%
Enriched phase
Starting material
Depleted phase
mAu (215 nm)
400
300
200
100
0
-100
30
31
32
33
34
35
ml

Figure 27

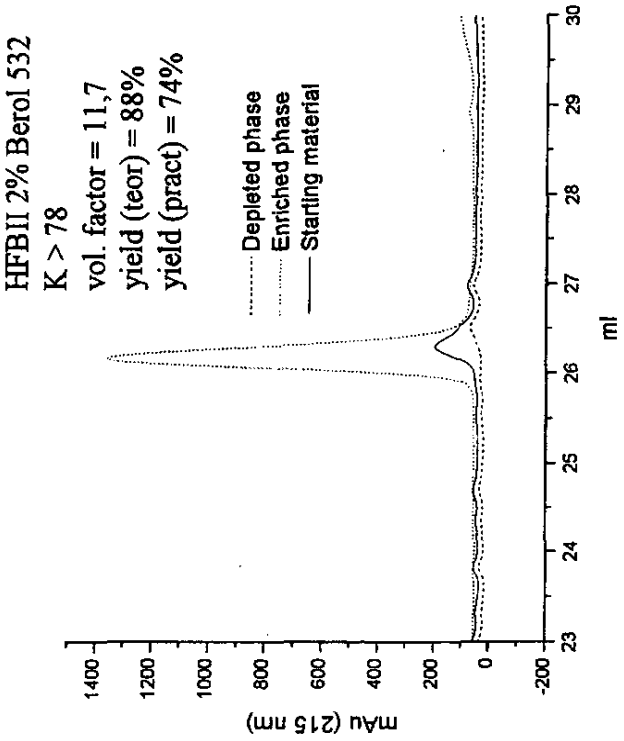

HFBII 2% Berol 532
K > 78
vol. factor = 11,7
yield (teor) = 88%
yield (pract) = 74%
Depleted phase
Enriched phase
Starting material
mAu (215 nm)
ml
1400
1200
1000
800
600
400
200
0
-200
23
24
25
26
27
28
29
30

Figure 28